AUTHOR INDEX

Aasman, J. 161
Adams, J. A. 737
Aldrich, F. K. 301
Alfaro, L. 269, 497
Anderson, R. M., Jr. 477
Asfour, S. S. 465
Ash, D. W. 661
Barnes, V. 269
Bauer, L. O. 213
Berch, D. B. 625
Berg, W. K. 131
Blom, D. H. J. 73
Boles, D. B. 395
Braune, R. 145
Bremer, D. A. 477
Burke, W. P. 483
Casey, S. M. 83, 541
Christopher, G. L. 1
Couchman, D. H. 311
Craig, A. 645, 675
Davies, D. R. 675
Dember, W. N. 625
Desaulniers, D. R. 599
Downing, J. V. 551
Drury, C. G. 1
Eberts, R. E. 31, 407
Elcombe, D. D. 61
Ellis, S. R. 371
Finn, R. 269, 497
Fisk, A. D. 255, 653
Flannagan, M. 533
Foley, P. 447
Fontenelle, G. A. 599
Fowler, B. 61
Furedy, J. J. 183
Genaidy, A. M. 465
Giambra, L. M. 635
Godfrey, S. S. 599
Goldstein, R. 213
Gomer, F. E. 131
Gould, J. D. 269, 497
Grischkowsky, N. 269
Haber, R. N. 519
Harwood, K. 447
Haupt, B. 497
Hayes, B. C. 349
Henik, A. 87
Hillyard, S. A. 195
Hitchcock, R. J. 371
Holding, D. H. 661
Hollands, J. G. 577
Hornick, R. J. 111
Kelly, P. A. 327
Kelso, B. 61
King, B. 339
Kingdom, F. 433
Klapp, S. T. 327
Kleiner, B. M. 1
Kramer, A. F. 145
Kushelevsky, A. 87
Langan, L. M. 67
Lanzetta, T. M. 625
Lassiter, D. L. 131
Laughery, K. R. 599
Lehner, P. E. 97
Lewis, J. R. 461
Lintern, G. 45
Loeb, M. 661
Lund, A. K. 541
Mackie, R. R. 707
Mangun, G. R. R. 195
Marras, W. S. 19, 563
Matthews, G. 675
McGreevy, M. W. 371
Merikle, P. M. 577
Minuto, A. 269, 497
Moll, M. B. 9
Moray, N. 171, 339
Moulden, B. 433
Mulder, G. 161
Mulder, L. J. M. 161
Myers, G. L. 255
Nelson, B. E. 45
Netick, A. 327
Noonan, T. K. 661, 685
Olson, P. L. 533

Parasuraman, R.	695	Stern, J. A.	213
Parkin, A. J.	301	Sticha, P. J.	421
Patrick, J.	587	Thomley-Yates, K. E.	45
Percival, L. C.	685	Thornton, D. C.	171
Pizatella, T. J.	9	Toms, M.	587
Pokorny, M. L. I.	73	Treaster, D.	563
Porlier, G.	61	Turksen, B.	339
Quilter, R. E.	635	Tzelgov, J.	87
Rangarajulu, S. L.	19	van Leeuwen, P.	73
Robinson, C. P.	31	van Nooten, W. N.	73
Rogers, S. P.	83	Vermeulen, J.	383
Roscoe, S. N.	45, 311	Vicente, K. J.	171, 349
Rothstein, P. R.	599	Warm, J. S.	625
Sanders, M. S.	551	Waterton, K.	339
Scerbo, M. W.	653	Watkins, S. M.	67
Shinar, D.	453	Wickens, C. D.	395
Silverstein, L. D.	131	Wiener, E. L.	725
Sirevaag, E. J.	145	Wightman, D. C.	245
Sistrunk, F.	245	Williges, R. C.	349
Sivak, M.	533	Wogalter, M. S.	599
Srebro, R.	87	Wongsam, P. E.	19
Stanislaw, H.	361	Zirk, D. A.	97
Stern, H. I.	453		

SUBJECT INDEX

Accident risk, bus drivers 73
Accidents
  aircraft crashes 519
  Chernobyl 111
  frequency 361
  human factors 111
  Hyatt-Regency Hotel 111
  parachute 483
  Space Shuttle *Challenger* 111
  Three-Mile Island-2 111
  traffic 361
  warnings 599
  work-rest schedule 1
Accommodation, volitional eye 311
Adaptation, driver speed 541
After-reach hazard 9
Assessment, pilot workload 145
Attention
  event-related potentials 145, 195
  vigilance 695
  visual 195, 519
Automation and vigilance 725
Automobile foot controls 83
Biofeedback 111
Blind, tangible graphics 301
Brake
  lamp signal photometrics 533
  pedals 83
Bus drivers, accident risk 73
Chaining, flight training 245
Chair design 563
Chernobyl accident 111
Clothing, neckwear tightness 67
Controls
  arrangement 551
  brake 83
  foot 83
  keyboard 453
  mirror-imaged 551
  power press 9
  separation 83
Critical flicker frequency
  pressure of neckwear 69
  video display problems 447
Data entry tasks 131
Detection, radiation 87
Display
  aircraft traffic 371
  auditory 87
  brake lamps 533
  critical flicker frequency 447
  CRT 269, 433, 479
  design 433
  formatting 395
  functional presentation 383
  menus 577
  mimic 383
  perspective 371
  pictorial 31
  process control 383
  reading 269, 497
  speech 31
  temporal resolution 447
  topographic presentation 383
  transfer of training 45
  vertical parameters 433
  visual 87, 383, 395, 433
  warnings 599
Dual-task performance
  cockpit 31
  display formatting 395
  evoked potentials 213
  tracking 327, 407
  training 407
Electrocardiogram 183
Electromyography
  data entry tasks 131
  lifting 19
Ergonomics 19
Event-related potentials
  flight missions 145
  information processing 213
  pilot assessment 145
  visual attention 195
Expert system 97
Feedback, augmented 45, 407

File search, hierarchical 349
Fuzzy set theory 339
Human-computer interaction
  file search 349
  keyboard operation 131
  magnetic stripe readers 461
  menu-driven programs 453
  menu organization 577
  vigilance 695
Hypoxia 61
Individual differences, file search 349
Information processing
  evoked potentials 213
  vigilance 625
Inspection, tactile 1
Interaction
  human-computer 131
  user-system 97
Keyboard operation 131
Liability, product
  design 111
  warnings 599
Lifting, trunk force 19
Magnetic stripe readers 461
Materials handling models 465
Memory, evoked potentials 213
Menu
  driven programs 453
  organization 577
Mirror imaging, controls 551
Model
  closed-loop 339
  human performance 421
  manual materials handling 465
  procedural control 421
  traffic safety trends 361
  workload 339, 407
Multiple-task performance
  display formatting 395
  tracking 327
Myopia, remission of 311
Operator effort 161
Parachute design 483
Performance
  display reading 269, 497
  fault-finding 587
  locus of attention 551
  magnetic stripe readers 461
  perceptual-motor 61
  supervisory control 383
  visual 67
Perception, visual illusions 519
Perceptual-motor performance 61
Pilot
  assessment 145
  traffic avoidance 371
Procedural control model 421
Process control
  displays 383
  vigilance 685
Product liability
  design 111
  warnings 599
Psychophysiology
  electrocardiogram 183
  event-related brain potentials 195
  evoked potentials 213
  flight 145
  heart rate 183, 213
  heart-rate variability 161
  occupational stress 131
  sinusarrhythmia 171
  T-wave amplitude 183
  workload 171
Radiation detection display 87
Safety
  brake lamps 533
  highway 541
  power press 9
  traffic 361
  warnings 599
Reading, CRT vs. paper 269, 497
Response time
  brake lamps 533
  display formatting 395
  hypoxia 61
  serial-choice 61
Seat pressure distribution 563
Shift sequences, accident risk 73
Shift work, sleepiness 477
Signal detection theory, vigilance 645
Simulation

after-reach hazard 9
carrier landing 245
flight mission 145
human performance 421
visual 45
Skill acquisition 255
Sleep, shift work 477
Space Shuttle *Challenger* accident 111
Spatial ability, hierarchical file search 349
Stress, occupational 131
Supervisory control 383
Tactile sensitivity
industrial inspection 1
tangible graphics 301
Tangible graphics 301
Task Taxonomy, vigilance 625
Theory
automatic and controlled processing 255, 653
closed-loop workload 339
fuzzy set 339
multiple resource 395
signal detection, vigilance 645
Three-Mile Island-2 accident 111
Time-sharing 327
Tracking 327
Traffic safety 361
Training
chaining 245
consistent task components 255
dual-task 407
fault finding 587
flight 45
industrial task 255
part-task 245
perception 519
strategies 245
transfer 45
Transfer of training
flight 45
mirror imaging 551
User-system interaction 97
Vehicle signaling 533
Vigilance
attention 695
automatic and controlled processing 653
automation 625
complexity 661
computer network 661
decrement 645, 675
diurnal variation 675
event rate 625
human-computer interaction 695
increment 661
information processing 625
probability matching 645
relative operating characteristic 645
research 707, 725, 737
signal detection theory 645
sustained attention 635
task characteristics 675
task taxonomy 625
time of day 675
time trends 635, 661
Visual attention 195
Visual displays
design 433
formatting 395
pixel height 433
process control 383
radiation 87
Visual performance
aircraft crashes 519
detection 433
critical flicker frequency 447
pixel height 433
reading 269, 497
target resolution 311
video display terminals 447
volitional eye accommodation 311
Volitional eye accommodation 311
Warnings 599
Work-rest schedules 73
Workload
assessment 145
closed-loop model 339
event-related potentials 145, 213
flight 145
model 339
vigilance 695